



**GE FLOW METERS**

A Measure Of Excellence

Estd. 1964

# COMPANY PROFILE

Instrumentation Engineers with technology purchased from Brooks Instrument Div., offer a broad line of flow measuring instrumentation. Included are flow indicating, transmitting and signaling devices, for all practical applications. IE has acquired its basic design capabilities from Brooks, which are comparable to Brooks standards.

Instrumentation Engineers Private Limited is specialized and largest manufacturer of Rotameters and its accessories. The Company was established in 1964 in Balanagar & 1973 in IDA, Jeedimetla. It has well qualified and trained technical personnel of long standing experience, who can design and develop precision flow meters to meet various requirements of a customer. IE's Engineers have been trained at the Brooks Plants in U.S. and Holland, where they have acquired the complete know-how for manufacturing Flowmeter. They have a long and outstanding experience in the field of Flowmeters design and manufacture. Along with the above manpower resources IE has computer aided design facilities, which assist in designing the Flowmeters, whose many components are manufactured to close design tolerances.

The standardization of design has led to IE's unique capability of inter changing many of its tubes and floats, without affecting the meter performance in most cases. This enables the customer to obtain a new flow range without field calibration. The R&D Unit and manufacturing work hand in hand to make sure that the best quality product is delivered.

The ultimate customer satisfaction prevailing and the rate at which the turnover, which again testifies to the long proven record of IE, is increasing, speaks volumes about Instrumentation Engineers quality standards. Attention is paid at almost every stage of designing to give the best quality product to the customers entire satisfaction.

Instrumentation Engineers Private Limited has the large customer based Network in India. The major customers are Nuclear Power Corporation India Ltd., Bharat Heavy Electricals Ltd., Bharat Petroleum Corporation Ltd., Indian Oil Corporation Ltd. Hightemp Furnaces Ltd., Fluidtherm Technology Pvt. Ltd. Department of Atomic Energy Ltd., Advance Ventilation Pvt. Ltd., Electronics Corporation of India Ltd., Engineers India Ltd., Hindustan Dorr Oliver Ltd., Punj Lloyd Ltd., Larsen & Toubro Ltd., Emerson Process Management Pvt. Ltd. Etc.

Name of the Company	Instrumentation Engineers Pvt. Ltd.		
Registered Office & Factory Address	Plots 1,2& 3, Phase III, I DA, Jeedimetla, Hyderabad - 500 055 Telangana, India		
Telephone	+91-402-309-5147 +91-402-309-5346		
Email	sales@ieflowmeters.com info@ieflowmeters.com		
Year of Establishment	1964 - Private Limited since 1973		
Capital Structure			
Paid Up	Rs. 15,95,000		
Reserves	Rs. 55,60,110		
Total cost of Project	Rs. 3,78,10,888		
Managing Director	G. Praveen Choudary		
Director	N. Niharika		
Employment:			
Marketing & Administration	6	Managers	2
		Engineers	2
		Support Staff	2
Factory	33	Managers	4
		Engineers	3
		Supervisors	4
		Skilled	18
		Others	4
Quality Assurance	4	Managers	1
		Engineers	1
		Supervisors	1
		Skilled	1
Sales Service Network			
Hyderabad	+91 9390815413		

2010-11 Turnover (in lakhs)	507.35
Banker's Reference	1. Canara Bank 2. Kotak Mahindra Bank 3. Andhra Bank
Railway Siding	Sanathnagar, Hyderabad
Foreign Collaboration	For over 25 years, we had collaboration with Brooks Instrument Div., Emerson Electric Co., USA.
Power	Connected load 150 HP
R&D Unit Registration	TU/IV-D/707/86-87 Dated June 23, 1986
No. ISO-9001-2015	20ZICK4607Q
Sales Tax Registration Nos.	APGST NO. HYR/03/1/1311/82-83 TIN NO. 28200167351 CST NO. HYR/03/1/1155/82-83 GST No. 36AAACY8918Q1ZF
Central Excise Licence No.	06/92 Dated 14/07/1992
Design Capabilities	Refer Annexure T-003
Manufacturing Facilities	Refer Annexure T-003
Testing Facilities	Refer Annexure T-002 & Refer Annexure T-003
Quality Assurance Plan	Refer Annexure T-003



Design Capabilities  
Manufacturing Facilities'  
Testing Facilities

# Manufacturing Facilities

IE with technology acquired from Brooks Instrument, manufactures a wide range of precision flowmeters and accessories, at their modern plant in Jeedimetla, Hyderabad.

The manufacture of the meeting tube, the heart of the variable area flowmeter is done on special purpose machines specially imported for this purpose. The list of machinery below ensures that the customer gets a good quality product.

## Imported Machinery

- Glass Tube Drawing machines - 2 Nos.
- Swaging machine - 1 No.
- Linear graduating machine - 1 No.
- Coil winding machine - 2 Nos.

## Indigenous Machinery

- CNC machining centre with 4th axis - 1 No.
- Centre lathes- 6 Nos. • Turret lathes - 3 Nos.
- Radial drilling machine - 1 No.
- Drilling machines - 4 Nos.
- Glass grinding - 1 No.
- Cutting machines - 1 No.
- Shaping Machine - 1 No.
- Flash Tapping machine - 1 No.
- Hydraulic presses - 2 Nos.
- Tig welding machines - 2 Nos.
- Pantograph machines - 2 Nos.
- Glass Annealing furnace - 2 Nos.
- Painting furnace - 1 No.
- PCB treating furnace - 1 No.
- Tumbling machine - 1 No.
- Tool and cutter grinder - 1 No.
- Wave soldering machine - 1 No.
- Air Compressors - 2 Nos.
- Buffing Machine - 1 No.
- Generator - 1 No.
- Special Purpose Machines - 12 Nos.

# Testing Facilities

It has been proved on a number of occasions that IE has the best testing facilities. Specially calibrated test rotameters, Volumeters, bell provers, oval gear meters imported from Brooks are some of the calibration equipment available with IE.

To this we have added a state-of-the-art compact prover purchased from Brooks Instrument. We can calibrate meters with flowmeters ranging from 3.5 to 3500 gpm.

## List of testing equipment

- Hydrostatic pressure testing upto 10,000 Psi - 3 Nos.
- Volumeter gas calibrators upto 12 SLPM - 3 Nos.
- Bell Prover gas calibrators upto 200 SCFM - 2 Nos.
- Rotameter liquid calibrators upto 100 GPM - 7 Nos.
- Oval gear calibrator upto 1000 GPM - 3 Nos.
- Dynamic weight time calibrator upto 10 tons - 2 Nos.
- Viscometer -1 No.
- Electronic Test Equipment - 1 set
- Pneumatic Calibrators - 1 set
- Compact Prover

# Quality Assurance Plan

## Receiving Inspection

- Inspection of incoming inventory material per drawing, purchase order and/or other applicable specifications
- Rejection of non conforming material
- Maintenance of material certificates, drawings and records.

## First Place Inspection

- Dimensional and visual inspection of "First Place" for each operation per drawing or published standards approved by Engineering and/or Quality Assurance.
- Rejection of non conforming parts and material.

## In-Process Inspection

- Perform inspection of material in-process in the shop
- Co-ordinate results of inspection with the appropriate Manufacturing and/or Quality Personnel.
- Maintain records which will indicate problem areas and communicate this information to responsible personnel.
- Rejects non conforming parts and material.

## Final Inspection - Shop

- Dimensional and visual inspection of completed parts.
- Rejects non conforming parts and material.
- Inspects parts and material returned to store from assembly or service areas.

## Tool Gauge Inspection

- Inspect, calibrate and determine serviceability of gauges.
- Repair measuring instruments and maintain repair parts in stock.
- Maintain calibration records of measuring equipment.
- Inspect tooling prior to release to shop and maintain inspection records.



- Perform preventive maintenance and calibration of Inspection Department's measuring equipment and standards.
- Issue measuring equipment to Manufacturing Personnel and maintain record of transactions.
- Maintain reference standards.

### **Accessory and Assembly Inspection**

- In-process and final inspection of accessories and sub-assemblies
- Determination of discrepancies and/or operational defects.
- In-process inspection of meter assemblies.

### **Final Inspection Assembly**

- Inspect units ready for dispatch and release acceptable equipment to despatch.
- Inspect parts and release acceptable parts to despatch.
- Determine discrepancies of material rejected at assembly and report to supervisor.
- Audit calibration and hydrostatic testing.
- Audit packaging, crating, marking and literature of despatches.

### **Calibration - Large Meters**

- Calibrate meters using Large Gravimetric and Time weight Prover.
- Supervise installation and removal of meters at Prover.
- Maintain calibration documents and test procedures for Large Calibration Systems.
- Operate Large Calibration Facilities. Calibration - Small Meters & Hydrostatic Testing
- Calibrate meters on Gravimetric Provers, Volumetric Provers, Master Meter and Time Weight Prover systems.
- Supervise Hydrostatic Pressure Testing.
- Maintain Engineering Test Procedures.
- Initiate corrective action on units that fail calibration and hydrostatic testing.
- Train calibration and hydrostatic testing personnel.

## Electronics

- Inspect, adjust and calibrate electronic equipment as part of meter calibration.
- Assist Receiving Inspection with inspection of incoming electronic components/equipment, develop testing procedures and select equipment.
- Maintain electronic test equipment, including interval calibration, recalibration and reference standards.

## Quality Control Manager with the assistance of Quality Assurance Supervisor

- Assigns responsibilities and supervises performance of supervisors.
- Trains inspection personnel.
- Supervises record and documentation maintenance.
- Process Engineering Change Notices.
- Reviews with shop supervisor rejected material to determine disposition.
- Maintains current knowledge of measuring techniques, equipment and procedures.
- Supervises maintenance of inspection equipment, gauges and reference standards.
- Prepares Quality Assurance Operating Procedures and Co-ordinates Implementation.
- Responsible for gauge calibration, maintenance and certification of reference standards.
- Monitors and analyses in-plant rejected material reports and assists Manufacturing in controlling scrap.
- Develops and maintains a Quality Audit Program.
- Prepares Quality Assurance Procedures, revising to meet applicable standards and specifications.
- Supervises training and qualification of testing personnel for non-destructive tests.
- Acts as liason for customer's inspectors.
- Co-ordinates welding procedures with Engineering, Manufacturing and Welding Departments.  
Supervises repair welding, non-destructive examination and/or other testing procedures.